

Lucidal

Chemical Properties

CAS No.:	252351-96-5
Formula:	C ₃₀ H ₄₆ O ₃
Molecular Weight:	454.7
Appearance:	N/A
Storage:	0-4°C for short term (days to weeks), or -20°C for long term (months).

Biological Description

Description	Lucialdehyde C (Lucidal) exhibits potent cytotoxicity against LLC, T-47D, Sarcoma 180, and Meth-A tumor cells with ED(50) values of 10.7, 4.7, 7.1, and 3.8 microg/ml, respectively.
Targets(IC ₅₀)	Others: None
In vitro	METHODS AND RESULTS: Three new lanostane-type triterpene aldehydes, named lucialdehydes A-C (1-3), were isolated from the fruiting bodies of <i>Ganoderma lucidum</i> , together with ganodermanonol (4), ganodermediol (5), ganodermanondiol (6), ganodermanontriol (7), ganoderic acid A (8), ganoderic acid B8 (9), and ganoderic acid C1 (10). The structures of the new triterpenes were determined as (24E)-3 beta-hydroxy-5 alpha-lanosta-7,9(11),24-trien-26-al (1), (24E)-3,7-dioxo-5 alpha-lanosta-8,24-dien-26-al (2), and (24E)-3 beta-hydroxy-7-oxo-5 alpha-lanosta-8,24-dien-26-al (3), respectively, by spectroscopic means. The cytotoxicity of the compounds isolated from the ganoderma mushroom was tested in vitro against Lewis lung carcinoma (LLC), T-47D, Sarcoma 180, and Meth-A tumor cell lines. CONCLUSIONS: Lucialdehydes B, C (2, 3), ganodermanonol (4) and ganodermanondiol (6) showed cytotoxic effects on tested tumor cells. Of the compounds, lucialdehyde C ((Lucidal,3) exhibited the most potent cytotoxicity against LLC, T-47D, Sarcoma 180, and Meth-A tumor cells with ED(50) values of 10.7, 4.7, 7.1, and 3.8 microg/ml, respectively.

Solubility Information

Solubility	< 1 mg/ml refers to the product slightly soluble or insoluble
------------	---

Preparing Stock Solutions

	1mg	5mg	10mg
1 mM	2.199 mL	10.996 mL	21.993 mL
5 mM	0.440 mL	2.199 mL	4.399 mL
10 mM	0.220 mL	1.100 mL	2.199 mL
50 mM	0.044 mL	0.220 mL	0.440 mL

Please select the appropriate solvent to prepare the stock solution, according to the solubility of the product in different solvents. The storage conditions and period of the stock solution: - 80 °C for 6 months; - 20 °C for 1 month. Please use it as soon as possible.

Reference

1. New Triterpene Aldehydes, Lucialdehydes AC, from Ganoderma lucidum and Their Cytotoxicity Against Murine and Human Tumor Cells. Cheminform, 2010, 33(48):837-40.

Inhibitors · Natural Compounds · Compound Libraries

This product is for Research Use Only · Not for Human or Veterinary or Therapeutic Use.

Tel:781-999-4286

E-mail:info@targetmol.com

Address:36 Washington Street,Wellesley Hills,MA 02481